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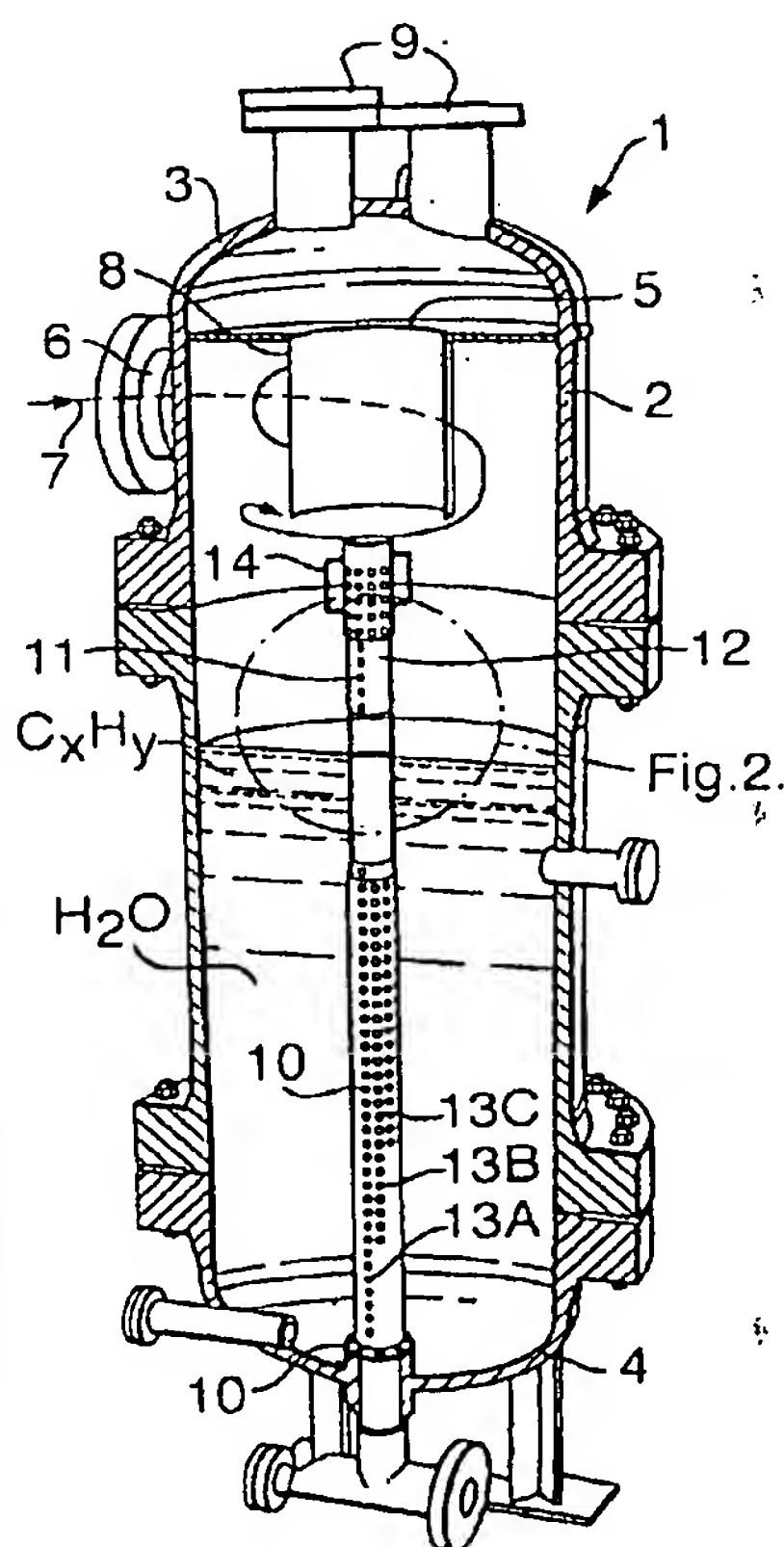
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(54) Title: METHOD AND SEPARATOR FOR CYCLONIC SEPARATION OF A FLUID MIXTURE



(57) Abstract: A method for cyclonic separation of gaseous and liquid fractions from a multiphase fluid mixture comprises: providing a cyclonic separation vessel (1) having a bottom section (4), a top section (3) and a tubular midsection (2), which is co-axial to a central axis (5); injecting the multiphase fluid mixture into the vessel via an inlet conduit (6) which has a substantially tangential orientation relative to said central axis (5); inducing the fluid mixture to swirl within said tubular mid-section (2) of the vessel at such a speed that liquid and gaseous fractions are separated by cyclonic separation and gravity forces induce the liquid fraction to drop to the bottom section (4) of the vessel; - removing the gaseous fraction from the interior of the top section of the vessel via a gas outlet conduit (8) which has an entrance opening which is located at or near the central axis (5); removing the liquid fraction from the interior of the bottom section (4) of the vessel via a plurality of liquid outlet openings (11) that are located at different vertical levels and through which liquid is discharged into a liquid outlet conduit (10) such that liquid components with different densities are mixed into a substantially homogeneous liquid fraction and the formation of high density and low density liquid slugs in said conduit (10) is mitigated.

WO 2005/089950 A1



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